

What is claimed is:

1. A semiconductor device comprising:
  - a substrate;
  - a semiconductor film provided over a substrate; and
  - a gate electrode provided over said semiconductor film with a gate insulating film therebetween,
    - wherein said gate insulating film comprises an organic resin.
2. A device according to claim 1 wherein said semiconductor device is incorporated into one selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a player using a recording medium, a digital camera, a cellular phone, and an electronic book.
3. A device according to claim 1 wherein said semiconductor film comprises a material selected from the group consisting of silicon, germanium and  $Si_xGe_{1-x}$  where  $0 < x < 1$ .
4. A device according to claim 1 wherein said semiconductor film comprises a crystalline semiconductor.
5. A device according to claim 1 wherein said substrate is selected from the group consisting of an insulating substrate, a ceramic substrate, a stainless steel substrate, a metal substrate, a semiconductor substrate and a plastic substrate.
6. A device according to claim 1 wherein said organic resin comprises BCB.
7. A semiconductor device comprising:
  - a substrate;
  - a semiconductor film provided over a substrate;
  - a channel region provided in said semiconductor film; and
  - a gate electrode provided over said channel region with a gate insulating film therebetween,
    - wherein said gate insulating film comprises an organic resin.
8. A device according to claim 7 wherein said semiconductor device is incorporated into one selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a player using a recording medium, a digital camera, a cellular phone, and an electronic book.
9. A device according to claim 7 wherein said semiconductor film comprises a material selected from the group consisting of silicon, germanium and  $Si_xGe_{1-x}$  where  $0 < x < 1$ .

10. A device according to claim 7 wherein said semiconductor film comprises a crystalline semiconductor.
11. A device according to claim 7 wherein said substrate is selected from the group consisting of an insulating substrate, a ceramic substrate, a stainless steel substrate, a metal substrate, a semiconductor substrate and a plastic substrate.
12. A device according to claim 7 wherein said organic resin comprises BCB.